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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Occurrence	10/695,327	HUANG ET AL.			
Office Action Summary	Examiner	Art Unit			
	Quang N. Vo	2625			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	ely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
 1) ☐ Responsive to communication(s) filed on 03 Fe 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for allowant closed in accordance with the practice under E 	action is non-final. ace except for formal matters, pro				
Disposition of Claims					
4) ☑ Claim(s) 1-4,6-13 and 18-30 is/are pending in t 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 1-4,6-13 and 18-30 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	4)	ite			
Paper No(s)/Mail Date 6) L Other:					

DETAILED ACTION

Response to Arguments

Regarding claim 1, Applicant's argument is Hajjahmad in view of Okada is improper to find a motivation to combine references from Application's own specification.

In response: Hajjahmad discloses image color recovery to have full color resolution by reconstructing an array of image data points from an image signal representing the image into a shifted array of pseudo pixels. Okada discloses restore/reproduction gradation data (e.g., step S15, Fig. 3). Thus Hajjahmad and Okada are the same endeavor for restoring/reproduction gradation of image data.

Hajjahmad does not explicitly disclose decreasing the full color level of the color element by reducing a number of bits of the full color level of the color element to form a reduced color level image, wherein the number of bits reduced from the full color level corresponds to an image noise level associated with scanning the image.

Okada discloses decreasing the full color level of the color element by reducing a number of bits of the full color level of the color element to form a reduced color level image, wherein the number of bits reduced from the full color level corresponds to an image noise level associated with scanning the image (e.g., converting 14 bit gradation data into 12 bits with comparing quality of luminance level in the image data, S3-S5, Fig. 2. Note: luminance difference considers as noise level associated with the image data).

Therefore it would have been obvious to one of ordinary skill in the art at the time

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of the invention to have modified Hajjahmad to include decreasing the color level of the color element by reducing a number of bits of a full color level of the color element to form a reduced color level image, wherein the number of bits reduced from the full color level corresponds to an image noise level associated with scanning the image as taught by Okada. It would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Hajjahmad by the teaching of Okada to improve luminance level and have better image quality by reproducing process (e.g., Fig. 3) of Okada.

Regarding claim 1, Applicant's argument is Hajjahmad in view of Okada do not disclose composing a pattern comprising the number of bits reduced from the full color level of the color element.

In response: Hajjahmad differs from claim in that he does not explicitly disclose decreasing the full color level of the color element by reducing a number of bits of the full color level of the color element to form a reduced color level image, wherein the number of bits reduced from the full color level corresponds to an image noise level associated with scanning the image.

Okada discloses decreasing the full color level of the color element by reducing a number of bits of the full color level of the color element to form a reduced color level image, wherein the number of bits reduced from the full color level corresponds to an image noise level associated with scanning the image (e.g., converting 14 bit gradation data into 12 bits with comparing quality of luminance level in the image data, S3-S5, Fig. 2. Note: luminance difference considers as noise level associated with the image data).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Hajjahmad to include decreasing the color level of the color element by reducing a number of bits of a full color level of the color element to form a reduced color level image, wherein the number of bits reduced from the full color level corresponds to an image noise level associated with scanning the image as taught by Okada. It would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Hajjahmad by the teaching of Okada to improve luminance level and have better image quality by reproducing process (e.g., Fig. 3) of Okada.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 18-25 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. In particular, claims 18-25 are directed to an apparatus which seems to be software per se. The claimed limitations include means-plus-function and the specification does not disclose the corresponding structure for the means-plus-function. Therefore, the claims are rejected under 112-2nd due to insufficient structure in specification.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the

art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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Claim 18-25 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. In particular, claim 18 with the limitation "wherein the number of bits **corresponds approximately** to an image noise associated with scanning the image" is not defined in the specification. The specification only discloses "wherein the number of bits **dependent on** an image noise associated with scanning the image".

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 6-13, 18-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hajjahmad et al. (Hajjahmad) (US 5,748,770) in view of Okada et al. (Okada) (US 7,233,414).

Regarding claim 1:

Hajjahmad discloses a method (e.g., the invention relates to a system and methods thereto for image color recovery, column 1, lines 21-22, figure 1) comprising: scanning an image with a scanner to obtain a full color level of a color element of a pixel

of the scanned image (e.g., FIG. 1 illustrates an electronic image processing system where an image signal source, such as an electronic still camera 10 or a scanner 12, provides an electronic image signal which represents an image of the subject, column 4, lines 2-6); composing a pattern (e.g., fig. 4 with vertical red, vertical green, vertical blue, horizontal red, horizontal green, horizontal blue. Note: since pattern is consisting of horizontal and vertical color component. Thus the vertical and horizontal of red, green, and blue of fig. 4 represent as pattern) comprising the color element (e.g., red, green, blue, figure 4), wherein the pattern has less color level of the color element than the full color level (e.g., from step 404 to step 414, figure 4, column 10, lines 22-39. Note: recovery color level by row and column representing array/halftone pattern; and since the recovery color components red, green, and blue combine for output image with full resolution, column 10, lines 35-39. Thus pattern must have less color level than the full color level); and restoring the full color level of the color element of the pixel by combining the reduced color level image with the pattern (e.g., the results of the parallel color recovery for each channel are combined in block 416 so that each color component is represented at each pixel location and the output image drawn from the processed pixels will exhibit full color resolution, column 10, lines 22-39).

Hajjahmad does not explicitly disclose decreasing the full color level of the color element by reducing a number of bits of the full color level of the color element to form a reduced color level image, wherein the number of bits reduced from the full color level corresponds to an image noise level associated with scanning the image.

Okada discloses decreasing the full color level of the color element by reducing a number of bits of the full color level of the color element to form a reduced color level image, wherein the number of bits reduced from the full color level corresponds to an image noise level associated with scanning the image (e.g., converting 14 bit gradation data into 12 bits with comparing quality of luminance level in the image data, S3-S5, Fig. 2. Note: luminance difference considers as noise level associated with the image data).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Hajjahmad to include decreasing the color level of the color element by reducing a number of bits of a full color level of the color element to form a reduced color level image, wherein the number of bits reduced from the full color level corresponds to an image noise level associated with scanning the image as taught by Okada. It would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Hajjahmad by the teaching of Okada to improve luminance level and have better image quality by reproducing process (e.g., Fig. 3) of Okada.

Regarding claim 2, Hajjahmad does not explicitly disclose wherein the reduced color level image and the pattern are combined using a bit enhanced method.

Okada discloses wherein the reduced color level image and the pattern are combined using a bit enhanced method (e.g., S3-S5, Fig. 2. Note: examiner interprets that because Bit-depth of the luminance channel is reduced to discard visually

unimportant information to a level where visual artifacts are virtually unnoticeable. Thus bit-depth truncation is a bit enhanced method).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Hajjahmad to include wherein the reduced color level image and the pattern are combined using a bit enhanced method as taught by Okada. It would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Hajjahmad by the teaching of Okada to improve luminance level and have better image quality.

Regarding claim 3, Hajjahmad and Maurer combined disclose wherein combining the reduced color level image (e.g., bit-depth truncation, block 106, column 2, lines 44-48) with the pattern restores the pixel to include a same number of bits of the color element as before the full color level was decreased (e.g., from step 404 to step 414, figure 4, column 10, lines 22-39 and step 416, figure 4).

With regard to claim 4, Hajjahmad discloses wherein the pattern comprises a halftone pattern (e.g., FIG. 3A provides the following example of vertical color recovery followed by horizontal color recovery (i.e. column followed by row) for serial implementation of the third color recovery method listed above. An input image s(j,i) having P rows and Q columns is shown in block 300, where i is the row index and j is the column index, column 9, lines 62-65).

Regarding claim 6, Hajjahmad discloses a method for reducing image noise in a scanned image (e.g., FIG. 1 illustrates an electronic image processing system where an image signal source, such as an electronic still camera 10 or a scanner 12, provides an

electronic image signal which represents an image of the subject (not shown). A computer 18 receives the electronic signal from the image signal source and thereafter processes the image signal electronically to provide any number of known image processing functions such as resizing, sharpening, noise removal, column 4, lines 2-10), comprising: scanning the image with a scanner to obtain a gray scale of one or more pixels of the image (e.g., FIG. 1 illustrates an electronic image processing system where an image signal source, such as an electronic still camera 10 or a scanner 12, provides an electronic image signal which represents an image of the subject, column 4, lines 2-6); restoring the gray scale of the one or more pixels using a halftone pattern comprising a matrix, and wherein a number of rows and a number of columns of the matrix correspond to the number of bits of gray scale image data subtracted from the one or more pixels (e.g., from step 404 to step 416, figure 4, column 10, lines 22-39. Note: recovery color level by row and column representing array/halftone pattern. Note: since Hajjahmad discloses restoring the gray scale of the one or more pixels using a halftone pattern comprising a matrix. it would have been obvious to one of ordinary skill in the art that to restore and obtain a full level of color image, Hajjahmad must use pattern with row and column equal to number of bits reduced to have full level of color).

Hajjahmad does not explicitly disclose reducing the gray scale of the one or more pixels is of the image by reducing a number of bits of gray scale image data from each of the one or more pixels, wherein the number of bits of gray scale image data reduced from the one or more pixels is determined based, at least in part, an image noise level associated with scanning the image.

Okada discloses reducing the gray scale of the one or more pixels is of the image by reducing a number of bits of gray scale image data from each of the one or more pixels, wherein the number of bits of gray scale image data reduced from the one or more pixels is determined based, at least in part, an image noise level associated with scanning the image (e.g., converting 14 bit gradation data into 12 bits with comparing quality of luminance level in the image data, S3-S5, Fig. 2. Note: luminance difference considers as noise level associated with the image data).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Hajjahmad to include reducing the gray scale of the one or more pixels is of the image by reducing a number of bits of gray scale image data from each of the one or more pixels, wherein the number of bits of gray scale image data reduced from the one or more pixels is determined based, at least in part, an image noise level associated with scanning the image as taught by Okada. It would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Hajjahmad by the teaching of Okada to improve luminance level and have better image quality by reproducing process (e.g., Fig. 3) of Okada.

With regard to claim 7, Hajjahmad differs from claim 7, in that he does not explicitly teach the color level of the pattern depends on the number of bits reduced from the full color level.

Okada discloses the color level of the pattern depends on the number of bits reduced from the full color level (e.g., difference data is calculated after eliminating the offset between the two kinds of gradation data (halftone/pattern) by multiplying the 8-bit-

gradation data by 4 (2 bit shift left), step S6, Fig. 2. Note: since the difference data is calculated after eliminating the offset between the two kinds of gradation data by multiplying the 8-bit-gradation data by 4 (2 bit shift left). Thus the different data is also gradation data (which is halftone/pattern)).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Hajjahmad to include the color level of the pattern depends on the number of bits reduced from the full color level as taught by Okada. It would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Hajjahmad by the teaching of Okada to improve luminance level and have better image quality.

Regarding claim 8, Hajjahmad discloses a method for reducing image noise in a scanned image (e.g., FIG. 1 illustrates an electronic image processing system where an image signal source, such as an electronic still camera 10 or a scanner 12, provides an electronic image signal which represents an image of the subject (not shown). A computer 18 receives the electronic signal from the image signal source and thereafter processes the image signal electronically to provide any number of known image processing functions such as resizing, sharpening, noise removal, column 4, lines 2-10), comprising: scanning with a scanner to obtain a color level of a color element of a pixel of the scanned image (e.g., FIG. 1 illustrates an electronic image processing system where an image signal source, such as an electronic still camera 10 or a scanner 12, provides an electronic image signal which represents an image of the subject, column 4, lines 2-6); composing a halftone pattern comprising a reduced image level of the color

element corresponding to the decreased number of bits; and restoring an image level of the color element of the pixel using the halftone pattern (e.g., from step 404 to step 416, figure 4, column 10, lines 22-39. Note: recovery color level by row and column representing array/halftone pattern. Note: since Hajjahmad discloses restoring the color level of the one or more pixels using a halftone pattern comprising a matrix. it would have been obvious to one of ordinary skill in the art that to restore and obtain a full level of color image, Hajjahmad must use pattern with row and column equal to number of bits reduced to have full level of color).

Hajjahmad does not explicitly disclose reducing the full image level of the color element by decreasing a number of bits of the color element according to the image noise associated with scanning the image.

Okada discloses reducing the full image level of the color element by decreasing a number of bits of the color element according to the image noise associated with scanning the image (e.g., converting 14 bit gradation data into 12 bits with comparing quality of luminance level in the image data, S3-S5, Fig. 2. Note: luminance difference considers as noise level associated with the image data).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Hajjahmad to include reducing the full image level of the color element by decreasing a number of bits of the color element according to the image noise associated with scanning the image as taught by Okada. It would have been obvious to one of ordinary skill in the art at the time of the invention to have

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modified Hajjahmad by the teaching of Okada to improve luminance level and have better image quality.

With regard to claim 9, Hajjahmad discloses wherein a number of bits of the color element in the recombined image level is the same as a number of bits of the color element in the full image level (e.g., from step 404 to step 416, figure 4, column 10, lines 22-39. Note: recovery color level by row and column representing array/halftone pattern. Note: since Hajjahmad discloses restoring the gray scale of the one or more pixels using a halftone pattern comprising a matrix. it would have been obvious to one of ordinary skill in the art that to restore and obtain a full level of color image, Hajjahmad must use pattern with row and column equal to number of bits reduced to have full level of color).

With regard to claim 10, Hajjahmad discloses wherein the halftone pattern comprises a matrix having a number of rows equal to the decreased number of bits (e.g., from step 404 to step 416, figure 4, column 10, lines 22-39. Note: recovery color level by row and column representing array/halftone pattern. Note: since Hajjahmad discloses restoring the gray scale of the one or more pixels using a halftone pattern comprising a matrix. it would have been obvious to one of ordinary skill in the art that to restore and obtain a full level of color image, Hajjahmad must use pattern with row and column equal to number of bits reduced to have full level of color).

With regard to claim 11, Hajjahmad discloses wherein the halftone pattern comprises a matrix having a number of columns equal to the decreased number of bits (e.g., from step 404 to step 416, figure 4, column 10, lines 22-39. Note: recovery color

level by row and column representing array/halftone pattern. Note: since Hajjahmad discloses restoring the gray scale of the one or more pixels using a halftone pattern comprising a matrix. it would have been obvious to one of ordinary skill in the art that to restore and obtain a full level of color image, Hajjahmad must use pattern with row and column equal to number of bits reduced to have full level of color).

With regard to claim 12, Hajjahmad discloses further comprising displaying the image including the recombined image level on a computer monitor (e.g., while in electronic form, images can be enhanced to create special visual effects, restored, coded for transmission to distant locations, stored in memory (such as on CDROM, DAT, floppy disks, etc.), reconstructed, displayed, or converted to some other tangible form, column 1, lines 36-41).

With regard to claim 13, Hajjahmad does not disclose further comprising filling out missing codes of the pixel using a bit-enhanced method.

Okada discloses further comprising filling out missing codes of the pixel using a bit-enhanced method (e.g., step S15, Fig. 3).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Hajjahmad to include further comprising filling out missing codes of the pixel using a bit-enhanced method as taught by Okada. It would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Hajjahmad by the teaching of Okada to improve luminance level and have better image quality.

Referring to claim 18:

Claim 18 is the apparatus claim corresponding with method steps in claim 8.

Therefore claim 18 is rejected as set forth above for claim 8.

Referring to claim 19:

Claim 19 is the apparatus claim corresponding with method steps in claim 9.

Therefore claim 19 is rejected as set forth above for claim 9.

With regard to claim 20, the subject matter is similar to claims 10 and 11.

Therefore claim 20 is rejected as set forth above for claims 10 and 11.

Regarding claim 21, Hajjahmad discloses wherein the image level is recombined with the halftone pattern to restore the color element of the one or more pixels to the full image level (e.g., the results of the parallel color recovery for each channel are combined in block 416 so that each color component is represented at each pixel location and the output image drawn from the processed pixels will exhibit full color resolution, column 10, lines 22-39).

Regarding claim 22, Hajjahmad does not explicitly disclose wherein the number of bits decreased from the full image level approximates a level of the image noise.

Okada discloses wherein the number of bits decreased from the full image level approximates a level of the image noise (e.g., converting 14 bit gradation data into 12 bits with comparing quality of luminance level in the image data, S3-S5, Fig. 2. Note: luminance difference considers as noise level associated with the image data).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Hajjahmad to include wherein the number of bits decreased from the full image level approximates a level of the image noise as taught

by Okada. It would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Hajjahmad by the teaching of Okada to improve luminance level and have better image quality.

With regard to claim 23, the subject matter is similar to claim 7. Therefore claim 23 is rejected as set forth above for claim 7.

Regarding claim 24, Hajjahmad discloses wherein one or more of the full image level, the reduced image level, and the image level comprise a color level (e.g., color recovery, Fig. 3A).

Regarding claim 25, Hajjahmad discloses wherein one or more of the full image level, the reduced image level, and the image level comprise a gray level (e.g., The results of the parallel color recovery for each channel are combined in block 416 so that each color component is represented at each pixel location and the output image drawn from the processed pixels will exhibit full color resolution, column 10, lines 35-39. Note: color component represents gray level).

Regarding claim 26, Hajjahmad discloses wherein the scanned image comprises three color elements, and wherein the pixel comprises at least one of the three color elements (e.g., Red, green, and blue in RGB color space, figure 4).

Regarding claim 27, Hajjahmad discloses wherein the three color elements comprise a red color element, a blue color element, and a green color element (e.g., Red, green, and blue in RGB color space, figure 4).

Regarding claim 28, Hajjahmad discloses wherein the full image level of the color element and the recombined image level of the color element comprises a gray level

(e.g., The results of the parallel color recovery for each channel are combined in block 416 so that each color component is represented at each pixel location and the output image drawn from the processed pixels will exhibit full color resolution, column 10, lines 35-39).

Regarding 29, Hajjahmad does not explicitly disclose wherein the full image level is reduced by decreasing a number of bits of the gray level.

Okada discloses wherein the full image level is reduced by decreasing a number of bits of the gray level (e.g., converting 14 bit gradation data into 12 bits with comparing quality of luminance level in the image data, S3-S5, Fig. 2).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Hajjahmad to include decreasing the color level of the color element by reducing a number of bits of a full color level of the color element to form a reduced color level image, wherein the number of bits reduced from the full color level corresponds to an image noise level associated with scanning the image as taught by Okada. It would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Hajjahmad by the teaching of Okada to improve luminance level and have better image quality.

Regarding 30, Hajjahmad does not explicitly disclose where the number of bits of the color element decreased from the full image level is dependent on a level of the image noise.

Okada discloses where the number of bits of the color element decreased from the full image level is dependent on a level of the image noise (e.g., converting 14 bit gradation data into 12 bits with comparing quality of luminance level in the image data, S3-S5, Fig. 2. Note: luminance difference considers as noise level associated with the image data).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Hajjahmad to include where the number of bits of the color element decreased from the full image level is dependent on a level of the image noise as taught by Okada. It would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Hajjahmad by the teaching of Okada to improve luminance level and have better image quality.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quang N. Vo whose telephone number is (571)270-1121. The examiner can normally be reached on 7:30AM-5:00PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David K. Moore can be reached on (571)272-7437. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/Quang N Vo/ Examiner, Art Unit 2625

/David K Moore/ Supervisory Patent Examiner, Art Unit 2625